

We claim:

1. A process for producing sodium acrylate polymer by
5 free-radical polymerization of sodium acrylate with or
without other monomers in an aqueous medium, which comprises
using sodium acrylate in the form of an aqueous solution or
dispersion obtainable by dissolving or dispersing solid
sodium acrylate in an aqueous medium.
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2. A process as claimed in claim 1, wherein the aqueous solution
of sodium acrylate used contains from 10 to 100 mol% of
sodium acrylate and from 0 to 90 mol% of acrylic acid.
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3. A process as claimed in claim 1 or 2, wherein the aqueous
solution of sodium acrylate used contains from 10 to 95 mol%
of sodium acrylate and from 5 to 90 mol% of acrylic acid.
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4. A process as claimed in claim 1 or 2, wherein the aqueous
solution of sodium acrylate used contains from 40 to 90 mol%
of sodium acrylate and from 10 to 60 mol% of acrylic acid.
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5. A process as claimed in any of claims 1 to 4, wherein the
aqueous solution contains from 0.01 to 5 mol% of a monomer
containing at least two ethylenically unsaturated double
bonds.
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6. A process as claimed in any of claims 1 to 5, wherein the
aqueous monomer solution is prepared using solid anhydrous
sodium acrylate.
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7. A process as claimed in any of claims 1 to 6, wherein the
solid sodium acrylate used has a water content from 0.1% to
10% by weight.
8. Sodium acrylate polymer obtainable by the process of claims 1
to 7.
9. The use of solid sodium acrylate for producing polymers by
40 dissolving the solid sodium acrylate in water to form an
aqueous monomer solution and polymerizing the monomer
solution in the presence or absence of other monomers.
10. A process according to any of claims 1 to 9, wherein the
45 solid sodium acrylate is wholly or partly replaced by another
water-soluble salt of acrylic acid.